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APR 24 2008

IN THE CLAIMS:

Cancel claims 1 to 21.

Add the following claims:

22. A device for variable attenuation of gas exchange valves of an internal combustion engine having rotational speed, comprising: a camshaft with at least one cam mounted in a housing and rotating independently of said rotational speed of said engine; an intermediate link driven initially by said cam, and carrying out an oscillating rotational movement about an axis of rotation in said housing; an adjusting cam having a control cam with a pause region and a lifting region, said axis of rotation being shiftable parallel to itself along said adjusting cam; a power take-off element actuated by said control cam and actuating at least one of said gas-exchange valves; said intermediate link being mounted on a bolt with an axis corresponding to said axis of rotation of said intermediate link, said bolt being mounted parallel displaceably on said adjusting cam with parallel displacement; cam discs and tappets supported against said housing and producing said parallel displacement; an adjusting shaft mounting rotatably said cam discs at said housing, said cam discs producing an adjusting movement transferred over said tappets onto said bolt.

23. A device for variable attenuation of gas exchange valves of an internal combustion engine having rotational speed, comprising: a camshaft with at least one cam mounted in a housing and rotating independently of said rotational speed

of said engine; an intermediate link driven initially by said cam and carrying out an oscillating rotational movement about an axis of rotation in said housing; an adjusting cam having a control cam with a pause region and a lifting region, said axis of rotation being shiftable parallel to itself along said adjusting cam; a power take-off element actuated by said control cam and actuating at least one of said gas-exchange valves; said intermediate link being mounted on a bolt with an axis corresponding to said axis of rotation of said intermediate link, said bolt being mounted parallel displaceably on said adjusting cam with parallel displacement; cam discs and tappets supported against said housing and producing said parallel displacement; said bolt being mounted rotationally movably in guides of said bolt and carrying at least one of said cam discs supported with their cams at said housing, said bolt being twistable over a connecting element by an adjusting agent.

24. A device as defined in claim 22, wherein said cam discs support said bolt in a substantially tangential direction with respect to said adjusting cam.

25. A device as defined in claim 23, including sliding blocks in said housing with material of greater hardness than against which said cam discs are supported.

26. A device as defined in claim 22, including a hydraulic clearance equalizing element at said power take-off element.

27. A device as defined in claim 22, wherein each said valve is arranged separately.

28. A device as defined in claim 22, including a separate arrangement of intake and exhaust valves of a cylinder head.

29. A device as defined in claim 22, including a separate arrangement for all valves of a cylinder head.

30. A device as defined in claim 22, including a separate arrangement for each of two adjacent parallel valves of a cylinder.

31. A device as defined in claim 30, including a common combined actuation of intake and exhaust valves of a cylinder.

32. A device as defined in claim 31, including a common intermediate link with two identical control cams for two valves.

33. A device as defined in claim 31, including a common intermediate link with two different control cams for two

valves.

34. A device as defined in claim 30, including two identical cams and two intermediate links with identical control cams for two valves.

35. A device as defined in claim 30, including two different cams and two intermediate links with different control cams for two valves.

36. A device as defined in claim 30, including two different cams and two intermediate links with identical control cams for two valves.

37. A device as defined in claim 22, including an adjustment for keeping at least one valve closed constantly.

38. A device as defined in claim 22, including a hydraulic unit specifying respective requested angular position to said bolt.

39. A device as defined in claim 22, including an electric adjusting motor specifying a requested angular position to said bolt over gear means.

40. A device as defined in claim 22, including a rotation transmitter with a crankshaft angle signal, valve lifts of individual cylinders being adjusted constantly as a function of said angle signal.

41. A device as defined in claim 22, including an adjusting motoroperating jointly adjusting movements during a joint pause phase of all valves.